2.3.3 Insomnia (Anidrā or Nidrānāśa)

Introduction

Insomnia is the perception or complaint of inadequate or poor quality of sleep because of difficulty in falling asleep, difficulty in maintaining sleep or waking too early in the morning. It is the most common sleep disorder in elderly. Chronic Insomnia can lead to severe fatigue, anxiety, depression and lack of concentration. Insomnia can be classified in terms of its duration. It comes under *Vāta nānātmaja vikāra* and called *Anidrā* or *Nidrānaśa* in *Ayurveda*.

This sleep disorder is 1.5 times more common in persons aged more than 65 years compared to younger counter parts and incidence in women is 1.3 times greater than in men. The prevalence of Insomnia increases steadily with age and reported by up to one in 3 people aged 65 years and above¹¹.

- 1. **Transient Insomnia** lasting from a night to a week and is usually caused by events that alter normal sleep pattern, such as traveling or sleeping in an unusual environment.
- 2. Short term Insomnia lasts about two to three weeks and is usually attributed to emotional factors such as worry or stress.
- 3. Chronic Insomnia occurs most nights and lasts a month or more.

Actiology

Insomnia is occasionally a symptom of an underlying medical or psychological condition but it may be caused by stress or life style changes. About half of Insomnia cases have no identifiable cause. Some conditions or situations that commonly lead to Insomnia include-

- 1. Substance abuse; such as smoking, excessive consumption of caffeine, alcohol and recreational drugs
- 2. Disruption of circadian rhythms; such as shift work, change in work schedule
- 3. Uncomfortable and unusual sleeping environment
- 4. Psychiatric and neurological conditions; such as depression, manic depressive disorder, restless leg syndrome (RLS), post traumatic stress disorder
- 5. Biological factors By advancement of ageing, the internal biological 'clock' that regulate sleep creeps slightly forward, compelling most older people to go to sleep earlier and to wake earlier. Also less physical and social activities and change in health may cause insomnia in elderly



- 6. Sleep disordered breathing sleep apnea
- 7. Chronic medical illness such as congestive heart failure, chronic obstructive pulmonary disease, heart burn, prostatic problems, menopause, diabetes, arthritis and hyperthyroidism
- 8. Certain medications decongestants, bronchodilators and beta blockers and long term use of sleep medication
- 9. Excessive computer work or watching T.V.

Pathogenesis

Sleep disorders are associated with an impairment of melatonin production. Melatonin produced by the pineal gland at night, plays a role in regulation of sleep-wake cycle and diminished-melatonin secretion may cause insomnia.

Clinical features

Common symptoms of insomnia include

- 1. Not feeling refreshed
- 2. Inability to sleep despite being tired
- 3. Day time drowsiness, irritability, difficulty in concentrating
- 4. Impaired ability to perform normal activities
- 5. Body-ache and heaviness of the body

Complications

- 1. Depression
- 2. Anxiety disorder
- 3. Fatal accident
- 4. Increase in severity of chronic diseases such as high blood pressure and diabetes

Investigations

- 1. Polysomnography
- 2. Evaluation for depression and anxiety



- 3. Multiple sleep latency test (MSLT)
- 4. Thyroid function test
- 5. EEG

Management approaches

a. Prevention

- 1. Use of *madhura rasa* (sweet in taste) *pradhāna āhāra* and warm buffalo milk before bed time
- 2. Maintain active life mentally and physically
- 3. Practice yoga and meditation
- 4. Practice of śiroabhyanga and pādābhyanga (massage of scalp and plantar region).
- 5. Avoid excessive consumption of coffee, tea, soft drinks, alcohol and smoking
- 6. Avoid incompatible, indigestible, hot, spicy food articles
- 7. Avoid heavy meal and stress at night
- 8. Correction of hypertension and diabetes mellitus and urological problems, if any

b. Medical management

Line of treatment

- 1. Nidāna parivarjana (avoidance of aetiological factors) before starting medication for insomnia any psychiatric, neurological condition and chronic medical illness should be treated first and smoking, excessive consumption of caffeine, alcohol, excessive computer work or T.V. watching should be avoided.
- 2. Pañcakarma procedures followed by Śamana cikitsā (Palliative therapy) should be advocated.
 - i. Virecana (Purgation) with Eranda taila 10 20 ml with half glass of milk at night
 - ii. Abhyanga (body massage), Pādābhyanga (foot massage), Śiroabhyanga (head massage) with medicated oils.
 - iii. Śirodhārā with medicated liquids (milk/ water/ oils (Nārāyaņa taila) daily 45-90 minutes for 21 days

- iv. Picu with Ksirabala taila/ Himasagara taila
- v. Takra dhārā daily 45 minutes for 14 days
- 3. Drug therapy

SINGLE DRUGS

Drug	Dosage (per dose)	MOA ^{\$} / Vehicle	Duration*
Aśvagandhā (Withania somnifera Dunal) cūrņa	3 gm	Sugar and <i>ghṛta</i> before meal	7 days
Jaṭāmāṃsī (Nardostachys jatamamasi DC.) cūrṇa	500 mg - 1 gm	Milk after meal	7 days
Brāhmī (Bacopa monnieri Linn.) cūrņa / svarasa	1-2 gm/ 10 ml	Milk/ sugar	7 days
Maṇḍūkaparṇī (Centella asiatica (Linn.) Urban.) cūrṇa / svarasa	1-2 gm/ 10 ml	Milk/ sugar	7 days

COMPOUND FORMULATIONS

Drug	Dosage (per dose)	MOA ^{\$} / Vehicle	Duration*
Māṃsyādi kvātha	15-20 ml	Water	7 days
Brāhmī vațī	125-250 mg	Honey	7 days
Sarpagandhādi vatī	125mg	Milk	7 days
Mānasa mitra vaṭaka	125 mg	Milk	7 days
Mahākalyāņaka ghŗta	6 gm	Warm milk/ warm water	7 days
Nārāyaņa taila	for <i>śirodhārā</i>	-	21days
Himasāgara taila	for <i>śirodhārā</i>	-	7 days
Kșirabalā taila	for <i>picu</i>	-	14 days

^{\$} MOA - Mode of administration

*Initially 2 times in a day after meal for 7 days followed by condition of patient and physician's direction

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NOTE: Out of the drugs mentioned above any one of the drug or in the combination may be prescribed by the physician. The duration of the treatment may vary from patient to patient. Physician should decide the dosage (per dose) and duration of the therapy based on the clinical findings and response to therapy.

Jațāmāmsī (Nardostachys jatamamasi)¹² has shown improvement in Insomnia.

- **c. Yogic Practices** The following *yogic* practices are beneficial in Insomnia; however, these should be performed only under the guidance of qualified *Yoga therapist*. Duration should be decided by the *Yoga therapist*.
 - 1. Practice of *Prānāyāma (Candra anuloma viloma, Ujjaī, Bhrāmarī,* Cooling *prānāyāma)* and meditation along with the practice of *Yama* and *Niyama*
 - Sūryanamaskāra, Tāḍāsana, Matsyāsana, Maņḍūkāsana, Bhujangāsana, Padmāsana, Pascimottānāsana and Śavāsana
 - 3. Deep relaxation techniques, Yoga Nidrā

Counselling - advice the patient to

- 1. Drink warm milk before going to bed
- 2. Do some light physical activities before going to bed
- 3. Take warm bath before bedtime
- 4. Sleep on comfortable bed
- 5. Use the bed and bedroom only for sleep (it should not be used for watching TV and reading)
- 6. Maintain a regular sleep /wake up schedule
- 7. Practice yoga and meditation
- 8. Leave the bed if unable to fall asleep
- 9. Avoid stressful conditions
- 10. Avoid heavy meals at bed time
- 11. Avoid consumption of coffee, tea, soft drinks, alcohol and smoking
- 12. Avoid irregular sleep habits and nap during the day
- 13. Avoid watching TV at bed time

Indications for referral

- 1. Not responding to medication
- 2. Further deterioration in spite of medication



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3. Insomnia associated with complications should be referred

COSTING DETAILS

S.No.	Medicine	Requirement	Unit	Rate in Rs.	Cost in Rs.
1.	Aśvagandhā cūrņa	42	gm	0.48	21
2.	Jațāmāṃsī cūrņa	15-30	gm	1.0	15-30
3.	Brāhmi cūrņa	15-30	gm	0.75	12-24
4.	Maṇḍūkaparnī svarasa	15-30	gm	0.75	12-24
5.	Māṃsyādi kvātha	210-420	ml	0.45	95-190
6.	Brāhmī vațī	1.75-3.5	gm	4.4	7.7-1.54
7.	Sarpagandhādi vațī	1.75	gm	5.2	10.0
8.	Mānasa mitra vataka	2	gm	5.73	11
9.	Mahākalyāņaka ghŗta	50	gm	0.67	34
10.	Nārāyaņa taila (for śirodhāra)	1200-1500	ml	0.51	612-765
11.	Himasāgara taila (for śirodhārā/ śirovasti)	1200-1500	ml	0.55	660-825
12.	Kșirabalā taila	200	ml	0.7	140

Approx. costing of Insomnia Management



Approx. costing of *Pañcakarma* procedure in Insomnia **

S.No.	<i>Pañcakarma</i> procedure	Days	Rate in Rs./ day	Cost in Rs.
1.	Abhyanga (body massage)	15	200	3000
2.	Śirodhārā (with taila)	21	300	6300
3.	Śirodhārā (with milk)	21	150	3150
4.	Takra dhārā	14	150	2100
5.	Picu	14	100	1400

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